

CHAPTER 10 MASONRY

SIFC-1001.0 GENERAL

- 1001.1** **Scope:** The requirements of this chapter and BNBC Section 1705.5 shall apply when construction includes masonry building elements as listed in Section SIFC-302.4 of this Special Inspections Document.
- 1001.2** **Loads:** No structural loads shall be imposed on any vertical load carrying member which is less than seven days old unless the masonry strength criteria established by the *Structural Engineer of Record (SER)* for carrying such loads are satisfied.
- 1001.3** **Protection During Construction:** Masonry walls shall be protected during construction in accordance with the requirements of SIFC-1303.0.

SIFC-1002.0 FABRICATION AND ERECTION DOCUMENTS

The masonry *fabrication and erection documents*, including construction bracing designs and mortar and grout mix designs, shall be submitted for review and approval to the *Architect of Record (AR)*, **SER** and **FCCSS** prior to masonry construction. The **GC** shall submit two sets of **SER**-approved *fabrication and erection documents* to **FCCSS**. After County review and approval, **FCCSS** will return one set of *County-approved fabrication and erection documents* for use on the job site. *County-approved documents* shall be used by the *Special Inspections Engineer of Record (SIER)* to conduct special inspections during construction.

SIFC-1003.0 INSPECTIONS

The **SIER** shall perform special inspections of masonry construction for conformance with *County-approved documents* and appropriate standards in accordance with Table SIFC-1001.

SIFC-1004.0 COLD-WEATHER AND HOT-WEATHER CONSTRUCTION

- 1004.1** **Cold Weather:** When either the ambient temperature falls below 40°F, or the temperature of masonry units is below 40°F, cold weather construction requirements as specified in Table SIFC-1001 and BNBC Section 2112.3 shall be implemented.
- 1004.2** **Hot Weather:** when either the ambient temperature equals or exceeds 100°F, or the ambient temperature equals or exceeds 90°F with a wind velocity greater than 8 mph, hot weather construction requirements as specified in Table SIFC-1001 and BNBC Section 2112.4 shall be implemented.
- 1004.3** **Temperature Records:** The **SIER** shall maintain and submit temperature records

with daily inspection reports.

Table SIFC-1001
SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION

INSPECTION OR TEST	Referenced Criteria	
	ACI 530/ASCE 5 /TMS 402	ACI 530.1/ASCE 6/T MS 602
MATERIAL		Sec. 2.2
MASONRY STRENGTH		Sec. 1.6
CONSTRUCTION OPERATIONS: Proportioning, mixing consistency of mortar and grout		Sec. 2.3.2.5 Sec. 4.2.2
Application of mortar grout and masonry units		Sec. 2.3.3.3 Sec. 4.3.3
Condition, size, location and spacing of reinforcement	Chapter 8	
Protection of masonry during cold weather or hot weather		Sec. 2.3.2.2 Sec. 2.3.2.3
	Section SIFC-1004.0	Section SIFC-1004.0
Anchorage	Sec. 4.2 Sec. 5.14	
Welding of reinforcement, grouting, consolidation and reconsolidation for Buildings assigned to Seismic Performance Category C		

SIFC-1005.0 COMPLETION OF MASONRY CONSTRUCTION

Upon completion of masonry special inspections, the **SIER** shall, after review and approval by the **SER**, submit a *Completion Letter* to **FCCSS** and shall indicate the date of completion on the *Final Report of Special Inspections*.